

## **ENVIRONMENTAL PROTECTION DIVISION**

## Richard E. Dunn, Director

Air Protection Branch 4244 International Parkway, Suite 12d Atlanta, Georgia 30354 404-363-7000

### **MEMORANDUM:**

TO:

Bonnie Pope

THROUGH:

Daniel McCain 04

FROM:

Anna Gray

SUBJECT:

SOURCE TEST REPORT REVIEW

The following test has been reviewed and was conducted in an acceptable fashion for the purpose intended

COMPANY NAME		BD (Becton, Dickinson and Company)						
COMPANY LOCATION		Covington, GA						
SOURCE TESTED		Sterilizer Chamber						
POLLUTANT DETERMINED		Ethylene Oxide						
REPORT REVIEWED BY		Anna Gray						
TEST WITNESSED BY		Anna Gray						
DATE(S) OF TEST		September 11, 2019 to September 12, 2019						
DATE RECEIVED BY APB		October 7, 2019						
MAXIMUM EXPECTED OPERATING CAPACITY		24 UNITS						
OPERATING CAPACITY		24 UNITS						
ALLOWABLE EMISSION RATE		99 % DRE						
APPLICABLE REGULATION		Permit 3841-217-0021-S-04-0, condition 2.3						
CONTROL EQUIPMENT AND MONITORING DATA		RTO-1 Chamber temperature: 1485.7 deg F						
TEST RUN#		1	2	3	AVERAGE			
GAS TEMPERATURE	INLET	131	130	130	Committee of the Commit			
(°F)	OUTLET	338.7	326.2	321.7				
GAS MOISTURE	INLET							
(%)	OUTLET	3	3	3				
GAS FLOW RATE	INLET							
(ACFM)	OUTLET							
GAS FLOW RATE (DSCFM)	INLET							
	OUTLET	11615	11752	11808				
POLLUTANT CONCENTRATION (PPM)	INLET				3700			
	OUTLET	0.20	0.20	0.20	0.20			
EMISSION RATE (LB/Batch)	INLET	75.1	75.8	74.2	75.0			
	OUTLET	0.00557	0.00583	0.00557	0.00565			
DESTRUCTION EFFICIENCY (%)		99.9925						

cc: Sean Taylor, Sean Taylor Reference Number: 201901155

AIRS Number: 21700021 Printed: 11/21/2019



#### **ENVIRONMENTAL PROTECTION DIVISION**

Richard E. Dunn, Director

**Air Protection Branch** 

4244 International Parkway, Suite 120 Atlanta, Georgia 30354 404-363-7000

OTHER INFORMATION

The emission rate is in pounds per batch (cycle) of sterilization, which lasts around 21-22 minutes. Every test run lasted a complete sterilization cycle.

The operating capacity is 24 pallets.

The emission rate for the outlet and the destruction efficiency were calculated by ISMU. Per CARB Method 431, no analytical results are to be reported below the limit of quantification (LOQ). The calculated LOQ for the outlet was less than the stated lower limit of the range of CARB Method 431 (0.20 ppm to 0.50% by volume), therefore 0.20 ppm was used for the outlet pollutant concentration.

AIRS Number: 21700021 Printed: 11/21/2019



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## Richard E. Dunn, Director

Air Protection Branch

4244 International Parkway, Suite 120 Atlanta, Georgia 30354 404-363-7000

## **MEMORANDUM:**

TO:

Bonnie Pope

THROUGH: Daniel McCain Dep

FROM:

Anna Gray

SUBJECT:

SOURCE TEST REPORT REVIEW

		TEST REPORT REV				N.		
The following test has	s been rev	iewed and was cond	ucted in an accep	table fashion for the	e purpose int	tended.		
COMPANY NAME		BD (Becton, Dickinson and Company)						
COMPANY LOCATION		Covington, GA						
SOURCE TESTED		Aeration Rooms						
POLLUTANT DETERMINED		Ethylene Oxide						
REPORT REVIEWED BY		Anna Gray						
TEST WITNESSED BY		Anna Gray						
DATE(S) OF TEST		September 11, 2019 to September 12, 2019						
DATE RECEIVED BY APB		October 7, 2019						
MAXIMUM EXPECTED OPERATING CAPACITY		208 UNITS						
OPERATING CAPACITY		208 UNITS /						
ALLOWABLE EMISSION RATE		99 % DRE ; 1 PPM						
APPLICABLE REGULATION		Permit 3841-217-0021-S-04-0, condition 2.4						
CONTROL EQUIPMENT		RTO-1						
AND MONITORING DATA		Chamber temperature: 1485.7 deg F						
TEST RUN#		1 2 3 AVERAGE						
GAS TEMPERATURE (°F)	INLET	The state of the s	engan Syungu atyun Shundishabanin aryangan tangan tangan sangan adamban sangan salamban salamban dinaptan dina	AND A SECT. ACRESTMENT OF STREET STREET, STREE	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM			
	OUTLET							
GAS MOISTURE (%)	INLET							
	OUTLET				***			
GAS FLOW RATE	INLET							
(ACFM)	OUTLET							
GAS FLOW RATE (DSCFM)	INLET					[8]		
	OUTLET					:		
POLLUTANT CONCENTRATION (PPM)	INLET	66.3	69.6	66.6	67.5			
	OUTLET	0.20	0.20	0.20	0.20			
EMISSION RATE (N/A)	INLET		V			Sect proceedings of the leaf and residentials control described a title control process.		
	OUTLET							
DESTRUCTION EFFICIENCY (%)		99.7						

cc: Sean Taylor, Sean Taylor Reference Number: 201901156

AIRS Number: 21700021

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OTHER INFORMATION

The operating capacity is 208 pallets.

The destruction efficiency was calculated by ISMU. Per CARB Method 431, no analysis results are to be reported below the limit of quantification (LOQ). The calculated LOQ for the outlet was less than the stated lower limit of the range of CARB Method 431 (0.20 ppm to 0.50% by volume), therefore 0.20 ppm was used for the outlet pollutant concentration.